





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

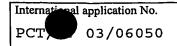
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 8031-PCT	FOR FURTHER ACT	ION	See Form PCT/IPEA/416
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/JP2003/006050	15 May 2003 (1	5.05.2003)	26 June 2002 (26.06.2002)
International Patent Classification (IPC) or C01B 3/10, 3/06, H01M8/06	national classification and l	PC	
Applicant	UCHIYA THERMO	STAT CO.,LTD).
This report is the international pre Authority under Article 35 and tra	climinary examination repor ansmitted to the applicant ac	t, established by this cording to Article 3	s International Preliminary Examining 6.
2. This REPORT consists of a total	of5 sheets, i	ncluding this cover	sheet.
3. This report is also accompanied b			
	and to the International Bure	eau) a total of 2	sheets, as follows:
sheets of the de and/or sheets of Administrative	escription, claims and/or dra containing rectifications auth c Instructions).	awings which have horized by this Auth	been amended and are the basis of this report nority (see Rule 70.16 and Section 607 of the
sheets which s beyond the dis Supplemental	sclosure in the international	which this Authori application as filed	ty considers contain an amendment that goes I, as indicated in item 4 of Box No. I and the
b. (sent to the Interna	tional Bureau only) a to , contain s indicated in the Supplem		type and number of electronic carrier(s)) ing and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the
4. This report contains indications		ns:	
Box No. I Basis of the	ne report		
Box No. II Priority			
Box No. III Non-estab	lishment of opinion with re	gard to novelty, inve	entive step and industrial applicability
	nity of invention		
Box No. V Reasoned	statement under Article 35(and explanations supporting	2) with regard to no such statement	ovelty, inventive step or industrial applicability;
	ocuments cited		
	efects in the international ap	plication	
·	bservations on the internation		•
			Cillianness
Date of submission of the demand		Date of completion	
16 January 2004 (16	6.01.2004)		September 2004 (24.09.2004)
Name and mailing address of the IPEA	/JP	Authorized office	er
Facsimile No.		Telephone No.	





Box No.	I I	Bas	s of the report	
1. With r	egard	to t	ne language, this report is based on the international application in the language ted under this item.	in which it was filed, unless
	This which	rep	ort is based on translations from the original language into the following lang language of a translation furnished for the purpose of:	uage,
		inte	rnational search (under Rules 12.3 and 23.1(b))	
	同	pul	olication of the international application (under Rule 12.4)	
	\sqcap	inte	emational preliminary examination (under Rules 55.2 and/or 55.3)	
furnis	hed to re not	the anr	the elements of the international application, this report is based on (replate receiving Office in response to an invitation under Article 14 are referred to its execution that the report):	ncement sheets which have been in this report as "originally filed"
	The is	nter	national application as originally filed/furnished	
	the de	escr	iption:	
ŧ	pages	• _	1-10	, as originally filed/furnished
	pages	_	received by this Authority on received by this Authority on	
	pages	° -	received by this Authority on	
\boxtimes	the cl	lain	ıs:	
	pages	s _	3	, as originally filed/furnished
	pages	s * -		with any statement) under Article 19
Ì	pages	-	1, 2, 4, 5 received by this Authority on	21 May 2004 (21.05.2004)
Ì	pages	s * -	received by this Authority on	
	the d	raw	ings:	
	page	s .	1/3-3/3	, as originally filed/furnished
	page		received by this Authority on	
	page	s * .	received by this Authority on	
	a seq	uer	ce listing and/or any related table(s) - see Supplemental Box Relating to Sequen	ce Listing.
3.	The	ame	endments have resulted in the cancellation of:	
""				
1	닉		e description, pages	
1	닏		e claims, Nos.	
1		!	e drawings, sheets/figs	
İ		•	e sequence listing (specify):	
		a	ny table(s) related to sequence listing (specify):	
4.	mad	le, i le 7] ti] ti] t	port has been established as if (some of) the amendments annexed to this report ince they have been considered to go beyond the disclosure as filed, as ind 0.2(c)). The description, pages	rt and listed below had not been icated in the Supplemental Box
		a	ny table(s) related to sequence listing (specify):	
1			•	
* If it	em 4 a	ıppi	ies, some or all of those sheets may be marked "superseded."	



V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-5	YES
	Claims		NO NO
Inventive step (IS)	Claims	1-5	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO

Citations and explanations 2.

JP 57-095803 A (Babcock-Hitachi Kabushiki Document 1: Kaisha), 14 June 1982

JP 57-048343 A (Babcock-Hitachi Kabushiki Document 2: Kaisha), 19 March 1982

JP 03-267558 A (Iseki & Co., Ltd.), 28 Document 3:

November 1991

JP 04-100518 A (Iseki & Co., Ltd.), 02 April Document 4: 1992

JP 30-871 B1 (Saban S. A. Societe Holdings), Document 5: 12 February 1955

The inventions that are set forth in claims 1, 3 and 4 involve an inventive step in relation to documents 1-5 cited in the international search report.

The feature wherein a first metal comprising at least one metal from among Rh, Ir, Ru, Pd, Pt and Os, and a second metal comprising at least one metal from among Ti, Zr, V, Nb, Cr, Mo, Al, Ga, Mg, Sc, Ni and Cu are added to iron or an iron oxide, and the loads of the aforementioned first metal and the aforementioned second metal that are added to the aforementioned iron or iron oxide each constitute between 0.1-30.0mol% of the total number of metal atoms when calculated in terms of the number of moles of metal atoms is not disclosed in

documents 1-5, and is not obvious to a person skilled in the art.

The inventions that are set forth in claims 2, 3 and 5 involve an inventive step in relation to documents 1-5 cited in the international search report.

The feature wherein at least one metal from among Rh, Ir, Ru, Pd, Pt and Os, and at least one metal from among Ti, Zr, Nb, Cr, Al, Ga, Mg, Sc, and Cu are added to iron or an iron oxide is not disclosed in documents 1-5, and is not obvious to a person skilled in the art.

Certain pı	ublished documents	(Rule 70.10)				
$\mathbf{A}_{\mathbf{j}}$	pplication No. Patent No.	Publication (day/month)		Filing date (day/month/year)	_	Priority date (valid claim) (day/month/year)
w	O 02/081368 A1	17 October 20	02 (17.10.2002)	01 April 2002 (01.0	4.2002)	01 April 2001 (01.04.2001
	[E, A]					
Non-verific	tton displagues (Pu	Io 70 0)				
	tten disclosures (Ru Kind of non-written		Date of non-w (day/mo	ritten disclosure onth/year)	referring	e of written disclosure g to non-written disclosure (day/month/year)
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			Date of non-w (day/mo	ritten disclosure onth/year)	referring	g to non-written disclosure
			Date of non-w (day/mo	onth/year)	referring	g to non-written disclosure
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